

Datasheet for ABIN3137065

ELP3/KAT9 Protein (AA 1-547) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	ELP3/KAT9 (ELP3)
Protein Characteristics:	AA 1-547
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELP3/KAT9 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MRQKRKGDLS PAELMMLTIG DVIKQLVEAH EQGKDVDLNK MKTKTAAKYG LASQPRLVDI
IAAVPPHYRK ILIPKLKAKP VRTASGIAVV AVMCKPHRCP HISFTGNICI YCPGGPDSDF
EYSTQSYTGY EPTSMRAIRA RYDPFLQTRH RIEQLKQLGH SVDKVEFIVM GGTFMALPEE
YRDYFIRSLH DALSGHTSNN IHEAIKYSER SFTKCVGITI ETRPDYCMKR H LSDMLTYGC
TRLEIGVQSV YEDVARDTNR GHTVKAACES FHLAKDSGFK VVTHMMPDLP NVGLERDIEQ
FIEFFENPAF RPDGLKLYPT LVIRGTGLYE LWKSGRYSY SPSDLIELVA RILALVPPWT
RVYRVQRDIP MPLVSSGVEH GNLRELAFAR MKDLGIQCRD VRTREVGIQE IHHRVRPYQV
ELVRRDYVAN GGWETFLSYE DPDQDILIGL LRLRKCSEET FRFELGGGVS IVRELHVVYS
VVPVSSRDPT KFQHQGFGL LMEEAERIAR EEHSGKMAV ISGVGTRNYY RKIGYRLQGP
YMKMLK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Elp3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	ELP3/KAT9 (ELP3)
Alternative Name:	Elp3 (ELP3 Products)
Background:	<p>Catalytic histone acetyltransferase subunit of the RNA polymerase II elongator complex, which is a component of the RNA polymerase II (Pol II) holoenzyme and is involved in transcriptional elongation. Elongator may play a role in chromatin remodeling and is involved in acetylation of histones H3 and probably H4. Involved in acetylation of alpha-tubulin (By similarity). May also have a methyltransferase activity. Involved in cell migration. Involved in neurogenesis.</p> <p>Regulates the migration and branching of projection neurons in the developing cerebral cortex, through a process depending on alpha-tubulin acetylation (PubMed:19185337).</p> <p>{ECO:0000250 UniProtKB:Q9H9T3, ECO:0000269 PubMed:19185337, ECO:0000269 PubMed:22854966}.</p>
Molecular Weight:	63.3 kDa Including tag.
UniProt:	Q9CZX0

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process